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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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n re Application of:

Weigl et al.

Serial No. 09/724,308

Filed: November 28, 2000

For:

MICROFABRICATED DIFFUSION-BASED CHEMICAL SENSOR

: Group Art Unit: 1743

: Examiner: Not assigned

ithisufficient postage as First or Patents, Washington, D.C. 202

INFORMATION DISCLOSURE STATEMENT

Asst. Commissioner of Patents Washington, D.C. 20231

Sir:

This application is a continuation of U.S. application 09/426,683 filed October 25, 1999, which is a continuation of U.S. application 08/829,679 filed March 31, 1997, now U.S. Patent No. 5,972,710 issued October 26, 1999, which is a continuation-in-part of U.S. application 08/625,808 filed March 29, 1996, now U.S. Patent No. 5,716,852 issued February 10, 1998. This application also claims priority to U.S. Application 09/703,764 filed November 1, 2000, which is a continuation-in-part of co-pending application no. 09/500,398, filed February 8, 2000, a continuation of application no. 09/346,852 filed July 2, 1999, which is a divisional application of application no. 08/663,916 filed June 14, 1996, now U.S. Patent No. 5,932,100 issued August 3, 1999, claiming priority to application no. 60/000,261 filed June 16, 1995. For the Examiner's convenience, PTO-1449 forms listing references cited by applicants and the Examiner in these cases along with copies of the references are enclosed.

Also, the Examiner is requested to consider the additional references listed on the PTO-

1449 form entitled "newly cited" enclosed along with copies of the references, which may qualify as prior art.

References listed in the PTO -1449 forms submitted herewith which do not specify the month of publication have a year of publication sufficiently earlier than the effective US filing date and any foreign priority date so that the particular month of publication is not in issue.

In compliance with the duty of disclosure set forth in 37 CFR 1.97, the Examiner is referred to the files of those applications for prior art of record. For the Examiner's convenience, copies of the 1449 forms in those cases are enclosed.

It is believed that this submission does not necessitate the payment of any fees; however, if this is incorrect, please charge any requisite fee to Deposit Account 07-1969.



Respectfully submitted,

Elle P. Winner

Ellen P. Winner Reg. No. 28,547

GREENLEE, WINNER AND SULLIVAN, P.C. 5370 Manhattan Circle, Suite 201, Boulder, CO 80303 Telephone: (303) 499-8080; Facsimile: (303) 499-8089 gal:June 18, 2001

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	APPLICANT Weigl et al.		GROUP 1743	il .
	Newly-cited references			TC 1700

U.S. PATENT DOCUMENTS

Exmr. Initial		ocument umber	Date	Name	Class	Subclass	Filing Date if Appropriate
	6,	159,739	12/12/00	Weigl et al.	436	52	·
	5,	747,349	05/05/98	van den Engh et al.	436	172	·
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FOREIGN PATENT DOCUMENTS

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	Document Number	Date	Country	Class	Subclass	Translation Yes/No	
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OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

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Sheet 1 of 6

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APPLICANT Weigl et al.		GROUP 1743

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Previously cited references

U.S. PATENT DOCUMENTS

·	U.S. PATENT DOCUMENTS						
Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate	
	3,449,938	06/17/69	Giddings	73	23		
	3,795,489	03/05/74	Warnick et al.	23	254 R		
	4,147,621	04/03/79	Giddings	210	22 C		
	4,214,981	07/29/80	Giddings	209	155		
	4,250,026	02/10/81	Giddings et al.	209	155		
	4,683,212	07/28/87	Uffenheimer	436	52		
	4,726,929	02/23/88	Gropper et al.	422	68		
	4,737,268	04/12/88	Giddings	209	12		
	4,756,884	07/12/88	Hillman et al.	422	73		
	4,830,756	05/16/89	Giddings	210	739		
	4,894,146	01/16/90	Giddings	209	12		
	4,908,112	03/13/90	Pace	204	299		
	5,007,732	04/16/91	Ohki et al.	356	73		
	5,039,426	08/13/91	Giddings	210	695		
	5,141,651	08/25/92	Giddings	210	748		
	5,156,039	10/20/92	Giddings	73	1 R		
	5,193,688	03/16/93	Giddings	209	155		
	5,240,618	08/31/93	Caldwell et al.	210	748		
	5,250,263	10/05/93	Manz	422	81		
	5,288,463	02/22/94	Chemelli	422	58		
	5,304,487	04/19/94	Wilding et al.	435	291		
	5,322,626	06/21/94	Frank et al.	210	634		
	5,389,524	02/14/95	Larsen et al.	435	29		
	5,465,849	11/14/95	Wada et al.	209	214		

Sheet 2 of 6

Form PTO 1449		·	
ATTY DOCKET NO. 6-96C	SERIAL NO. 09/724,308	FILING DATE November	28, 2000
APPLICANT Weigl et al.		GROUP 1743	

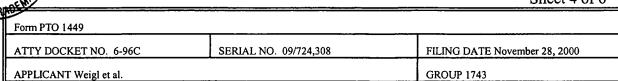
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5,599,503 02/04/97 Manz et al. 422 82.05 5,637,469 06/10/97 Wilding et al. 435 7.21 5,635,358 06/03/97 Wilding et al. 435 7.2 5,498,392 03/12/96 Wilding et al. 422 68.1 5,549,819 08/27/96 Nickerson 210 511 5,534,328 07/09/96 Ashmead et al. 210 97 5,554,339 09/10/96 Cozzette et al. 422 69 5,571,410 11/05//96 Swedberg et al. 422 69 5,585,011 12/17/96 Saaski et al. 216 56 5,585,069 12/17/96 Zanzucchi et al. 435 287.3 5,603,351 02/18/97 Cherukuri et al. 137 597 5,605,662 02/25/97 Heller et al. 422 69 5,639,423 06/17/97 Northrup et al 435 287.3 5,674,743 10/07/97 Ulmer 435 287.2 5,681,484 10/28/97 Zanzucchi et al. 216 56	ATTY DOCKET N	O. 6-96C	SERIA	AL NO. 09/724,308	FILIN	G DATE November	28, 2000	"IED
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5,599,503 02/04/97 Manz et al. 422 82.05 5,637,469 06/10/97 Wilding et al. 435 7.21 5,635,358 06/03/97 Wilding et al. 435 7.2 5,498,392 03/12/96 Wilding et al. 422 68.1 5,549,819 08/27/96 Nickerson 210 511 5,534,328 07/09/96 Ashmead et al. 210 97 5,554,339 09/10/96 Cozzette et al. 422 69 5,571,410 11/05//96 Swedberg et al. 422 69 5,585,011 12/17/96 Saaski et al. 216 56 5,585,069 12/17/96 Zanzucchi et al. 435 287.3 5,603,351 02/18/97 Cherukuri et al. 137 597 5,605,662 02/25/97 Heller et al. 422 69 5,632,957 05/27/97 Heller et al. 422 69 5,639,423 06/17/97 Northrup et al 435 287.3 5,674,743 10/07/97 Ulmer 435 287.2 5,681,484 10/28/97 Zanzucchi et al. 216 56			 I	<u> </u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·	7014	1.700
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5,707,799 01/13/98 Hansmann et al. 435 6		5,681,484	10/28/97	Zanzucchi et al.	216	56		
		5,707,799	01/13/98	Hansmann et al.	435	6		
5,716,852 02/10/98 Yager et al. 436 172		5,716,852	02/10/98	Yager et al.	436	172		
5,726,751 03/10/98 Altendorf et al. 356 246		5,726,751	03/10/98	Altendorf et al.	356	246		

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	ATTY DOCKET NO. 6-96C	SERIAL NO. 09/724,308	FILING DATE November 28, 2000
	APPLICANT Weigl et al.		GROUP 1743

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APPLICANT Weigl	et al.			GRO	UP 1743	-NEI
Previously cited referen	nces				F	RECEIVET NN 2 2 2001
	5,842,787	12/01/98	Kipf-Sill et al.	366	340	170
	5,869,004	02/09/99	Parce et al.	422	100	
	5,932,100	08/03/99	Yager et al.	210	634	
	5,961,832	10/05/99	Shaw et al.	210	85	
	5,971,158	10/26/99	Yager et al.	209	155	

FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes/No
WO 97/02357	23.01.97	PCT	C12P 19/34		
WO97/00125	03.01.97	PCT	B01F 5/06		•
WO96/15576	23.05.96	PCT	H92K 44/02		
WO96/12541	02.05.96	PCT	B01D 11/04		
WO96/12540	02/05/96	PCT	B01D 11/04		
WO96/04547	15.02.96	PCT	G01N 27/00		
WO93/22421	11.11.93	PCT	C12M 3/00		
WO93/22058	11.11.93	PCT	B01L 7/00		
WO93/22055	11.11.93	PCT	B01L 3/00		
 WO93/22054	11.11.93	PCT	B01L 3/00		
WO93/22053	11.11.93	PCT	B01L 3/00		
0 294 701 B1	14.12.88	EP	G01N 15/14		
 0 381 501 A2	08.08.90	EP	B01L 3/00		
0 645 169 A1	29.03.95	EP	B01D 21/00		



ATTY DOCKET NO. 6-96C	SERIAL NO. 09/724,308	FILING DATE November 28, 2000	
APPLICANT Weigl et al.		GROUP 1743	
eviously cited references OTHER	PRIOR ART (including Author, Title, Date, Per	tinent Pages, etc.)	C 1700
Afro	omowitz, M.A. and Samaras, J.E., (1989), "Pinch or Injections Techniques," Seperation Science and	Field-Flow Fractionation Using d Technology 24(5&6):325-339	C 1709
Brod	ly, J.P. and Yager, P. (June 1996), "Low Reyno I State Sensor & Actuator Workshop, Hilton Hed	lds Number Micro-Fluidic Device,"	;
	nelik et al., (1991), "Isoelectric focusing field-floomatography 545(2):349-358	w fractionation," J.	
	enspoek et al., (Dec 1994), Towards, Integrated leomech. Microeng. 4:227-245	Microliquid Handling Systems," J.	
	heux, L.P. et al. (Feb 1995), "Optical Thermal I 504-1507	Ratchet," Phys. Rev. Letters	
	ter et al., (Nov 1995), "Design, Fabrication and "ps," Proceeding of the ASME Fluids Engineering		·
1 1 1	t al., (1993), "Rapid Diffusion Coefficient Meas ctionation: Application to Proteins," <i>Anal. Bioch</i>	• •	
	resen et al., (1993), "Microfluidics - a review," Joengineering 3:168-182	. Micromechanics and	·
1 1	lings, J.C., (1988), "Continuous Separation in Spantial Applications to Biological Materials," Sep.	` '	·
	lings, J.C. (1985), "Optimized Field-Flow Fraction Splitters," <i>Anal. Chem.</i> 57 :945-947	onation System Based on Dual	
	lings, J.C. et al. (1983), "Outlet Stream Splitting Fractionation," Separation Science & Technology		
	lings, J.C. (June 1993), "Field-Flow Fractionation bidal and Particulate Materials," Science 260:145		
	ison et al., (Aug 1993), "Micromachining a minid chemical analysis system on a chip," Science 2		
	Isand, G. and Stemme, G., (1990), "A Sub-micro ors and Actuators A21-A23:904-907	on Particle Filter in Silicon,"	,
	H.S. and Rex, A.F. (Mar 1990), "Resource letter hysics 58:201-209	er MD-1: Maxwell's demon," Am.	

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ATTY DOCKET NO. 6-96C SERIAL NO. 09/724,308 FILING DATE November 28, 2000

APPLICANT Weigl et al. GROUP 1743

Previously cited references

JUN 2 2 2001

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<u> </u>	
	Levin, S. and Tawil, G., (Sept 1993), "Analytical SPLITT Fractionation in the Diffusion Mode Operating as a Dialysis-like system Devoid of Membrane. Application to Drug-Carrying Liposomes," <i>Anal. Chem.</i> 65:2254-2261
	Manz, A. et al. (1993), "Planar Chips technology for miniaturization of separation systems: A developing perspective in chemical monitoring," <i>Advances in Chromatography</i> 33:1-66
	Petersen, K.E. (May 1982), "Silicon as a Mechanical Material," Proc. IEEE 70(5):420-457
	Ramsey et al., (Oct 1995), "Microfabricated chemical measurement systems," Nature Medicine 1(10):1093-1096
	Reisman, A. et al. (1979) "The Controlled Etching of Silicon in Catalyzed Ethylenediamine-Pyrocatechol-Water Solutions," J. Electrochem. Soc. 126:1406-1415
	Rousselet, J. et al. (Aug 1994), "Directional motion of brownian particles induced by a periodic asymmetric potential," <i>Nature</i> 370:446-448
	Shoji, S. and Esashi, M. (Dec 1994), "Microflow devices and systems," J. Micromechanics and Microengineering 4:157-171
	Springston et al., (1987), "Continuous Particle Fractionation Based on Gravitational Sedimentation in Split-Flow Analytical Chemistry," Analytical Chemistry 59:344-350
	Verpoorte et al., (Dec 1994), "Three-dimensional micro flow manifolds for miniaturized chemical analysis systems," J. Micromech. Microeng. 4:246-256
	Wallis, G. and Pomerantz, D.I. (Sept 1969) "Field Assisted Glass-Metal Sealing," J. Appl. Physics 40:3946-3949
	Weigl, B.H. and Yager, P. (Apr 1996), "Silicon-Microfabricated Diffusion-Based Optical Chemical Sensor," presented at Europtrode Conference, Zurich, Switzerland, April 2-3
	Weigl, B.H. et al. (Feb 1997), "Fluorescence and absorbance analyte sensing in whole blood and plasma based on diffusion separation in silicon-microfabricated flow structures," SPIE Proceedings, J. Lakowitz (ed.), Fluorescence Sensing Technology III (Feb. 9-11)
	Weigl, B.H. et al. (Nov 1996), "Diffusion-Based Optical Chemical Detection in Silicon Flow Structures," <i>Analytical Methods & Instrumentation Special Issue μTAS 96</i> , pp. 174-184
	Weigl, B.H. et al. (Nov 1996), "Rapid sequential chemical analysis in microfabricated flow structures using multiple fluorescent reporter beads," <i>µTAS 96</i> (Nov' 96)

Sheet 6 of 6

7	Form PTO 1449	<u> </u>			
	ATTY DOCKET NO. 6-96C	SERIAL NO. 09/724,308	FILING DATE Novem	ber 28, 2000	MES
	APPLICANT Weigl et al.		GROUP 1743	DEC	FINE

Previously cited references

JUN 2 2 2001 1700

·	Wilding et al., (Jan 1994), "Manipulation and Flow of Biological Fluids in Straight Channels Micromachined in Silicon," J. Clin. Chem. 40(1):43-47
	Williams, P.S. et al. (1992), "Continuous SPLITT Fractionation Based on a Diffusion Mechanism," Ind. Eng. Chem. Res. 31:2172-2181
	Yue et al., (Sept 1994), "Miniature Field-Flow Fractionation Systems for Analysis of Blood Cells," Clin. Chem. 40:1810-1814

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